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**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of

Docket No: Q77484

Jun TANAKA, et al.

Appln. No.: 10/663,720

Group Art Unit: 2819

Confirmation No.: 2231

Examiner: Not yet assigned

Filed: September 17, 2003

For: HIGH ACTIVITY PHOTO-CATALYST

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the document Nos. 1 to 18 which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

A copy of document No. 1 is not being submitted herewith since it is a U.S. Patent.

One copy of each of the listed document Nos. 2 to 9 is not being submitted herewith since copies were previously submitted with the Information Disclosure Statement filed on April 28, 2003 in Parent Application No. 10/028,420. A copy of each of the listed documents Nos. 10 to 18 is being submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action

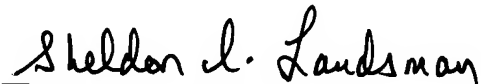
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

U.S. Appln. No.: 10/663,720

waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,



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WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: June 23, 2004

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
U.S. Appln. No.: 10/663,720

on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language document Nos. 2 to 9, Applicant encloses herewith a copy of an English-language translation of an International Preliminary Examination Report (IPER), including an English language Notification of Transmittal of Copies of Translation of the International Preliminary Examination Report from a foreign patent office (International Bureau) in a counterpart application citing such documents, including that portion of the IPER indicating the degree of relevance found by the International Bureau and discussing the documents cited in the IPER.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language document Nos. 16 to 18, Applicant encloses herewith a copy of an English-language European Search Report from the European Patent Office in a counterpart application citing such documents, including that portion of the European Search Report indicating the degree of relevance found by the European Patent Office.

Further, Applicant encloses English language abstracts for document Nos. 16 to 18, and points out that document No. 16 corresponds to the listed EP 1-118385 (document No. 11), document No. 17 corresponds to the listed EP 1-064999 (document No. 14), and document No. 18 corresponds to the listed document No. 1.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not

Substitute for Form 1449 A &amp; B/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

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of

1

Complete if Known

Application Number	10/663,720
Confirmation Number	2231
Filing Date	September 17, 2003
First Named Inventor	Jun TANAKA
Art Unit	2819
Examiner Name	Not yet assigned
Attorney Docket Number	Q77484

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
	1	US 6,180,548	B1	01-30-2001	Taoda et al
		US			
		US			
		US			
		US			

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
	2	WO	00/10706	A	03-02-2000	Kankyo Device Kenkyusho, K.K.	
	3	JP	2000-218161	A	08-08-2000	Sharp Corporation	
	4	JP	2001-72419	A	03-03-2001	Sumitomo Chemical Supply Co., Ltd.	
	5	JP	11-309379	A	11-09-1999	Toto, Ltd.	
	6	JP	2000-1631	A	01-07-2000	Agency of Ind. Science and Tech.	
	7	JP	11-302596	A	11-02-1999	Kansai Paint Co. Ltd.	
	8	JP	11-156202	A	06-15-1999	Toto, Ltd.	
	9	JP	9-296364	A	11-18-1997	Lion Corporation	
	10	EP	0-963789	A2	12-15-1999	Diacel Chemical Industries, Ltd.	
	11	EP	1-118385	A1	07-25-2001	Toto Ltd.	
	12	EP	1-052027	A1	11-15-2000	Tao Inc.	
	13	EP	1-153999	A1	11-14-2001	Showa Denko Kabushiki Kaisha	
	14	EP	1-064999	A1	01-03-2001	Agency of Industrial Science & Technology, JAPAN	
	15	EP	1-147812	A1	10-24-2001	Showa Denko Kabushiki Kaisha	
	16	WO	00/06300	A1	02-10-2000	Toto Ltd.	Abstract
	17	WO	99/33566	A1	07-08-1999	Agency of Industrial Science & Technology, JAPAN	Abstract
	18	JP	10-244166	A	09-14-1998	Agency of Industrial Science & Technology, JAPAN	Abstract

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.